

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)	
)	
Marc ALAIA <i>et al.</i>)	
)	
Serial No.: 09/252,790)	Group Art Unit: 2761
)	
Filed: February 19, 1999)	Examiner: Unassigned
)	
For: METHOD AND SYSTEM FOR)	
CONDUCTING ELECTRONIC)	
AUCTIONS)	

Assistant Commissioner for Patents
Washington, D.C. 20231

DECLARATION FOR PATENT APPLICATION

Sir:

As a below-named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am an original, first, and joint inventor of the subject matter that is claimed and for which a patent is sought on the invention entitled **Method and System for Conducting Electronic Auctions**, the specification of which was filed on February 19, 1999.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56(a).

I hereby declare that all statements made herein of my knowledge are true and that all statements made of information and belief are believed to be true; and further that these statements were made with a knowledge that willful false statements in like so made are punishable by fine or imprisonment, or both, under § 1001 of Title 18 of the United States Code

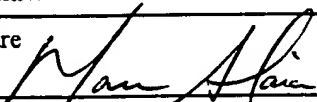
PATENT

ATTORNEY DOCKET NO.: 046700-5004

APPLICATION NO. 09/252,790

Page 2

and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

INVENTOR 1		
Family Name ALAIA	First Given Name Marc	Second Given Name
City Glenshaw	State / Country Pennsylvania, U.S.A.	Citizenship U.S.A.
Post Office Address 113 Grandview Avenue	City Glenshaw	State Pennsylvania 15116
Date April 6, 1999	Signature 	

INVENTOR 2		
Family Name BECKER	First Given Name David	Second Given Name J.
City Sewickley	State / Country Pennsylvania, U.S.A.	Citizenship U.S.A.
Post Office Address 22 Sewickley Hills Drive	City Sewickley	State Pennsylvania 15143
Date	Signature	

INVENTOR 3		
Family Name BERNARD	First Given Name Anthony	Second Given Name F.
City Wexford	State / Country Pennsylvania, U.S.A.	Citizenship U.S.A.
Post Office Address 2518 Lindenwood Drive	City Wexford	State Pennsylvania 15090
Date	Signature	

PATENT

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Page 3

INVENTOR 4		
Family Name HECKMANN	First Given Name Daniel	Second Given Name C.
City Pittsburgh	State / Country Pennsylvania, U.S.A.	Citizenship U.S.A.
Post Office Address 4889 East Willock Road	City Pittsburgh	State Pennsylvania 15227
Date	Signature	

INVENTOR 5		
Family Name KINNEY, JR.	First Given Name Sam	Second Given Name E.
City Sewickley	State / Country Pennsylvania, U.S.A.	Citizenship U.S.A.
Post Office Address 314 Maple Lane	City Sewickley	State Pennsylvania 15143
Date	Signature	

INVENTOR 6		
Family Name MEAKEM	First Given Name Glen	Second Given Name T.
City Sewickley	State / Country Pennsylvania, U.S.A.	Citizenship U.S.A.
Post Office Address 703 Cochran Street	City Sewickley	State Pennsylvania 15143
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INVENTOR 7		
Family Name RAGO	First Given Name Vincent	Second Given Name F.
City Pittsburgh	State / Country Pennsylvania, U.S.A.	Citizenship U.S.A.
Post Office Address 15 Roxbury Road	City Pittsburgh	State Pennsylvania 15221
Date	Signature	

INVENTOR 8		
Family Name RENEAU	First Given Name Jason	Second Given Name
City Boston	State / Country Massachusetts, U.S.A.	Citizenship U.S.A.
Post Office Address 403 Marlborough Street	City Boston	State Massachusetts 02115
Date	Signature	

INVENTOR 9		
Family Name ROBERTS	First Given Name Frederick	Second Given Name W.
City Pittsburgh	State / Country Pennsylvania, U.S.A.	Citizenship U.S.A.
Post Office Address 5 Grandview Avenue, Apt. 803	City Pittsburgh	State Pennsylvania 15221
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Page 5

INVENTOR 10		
Family Name RUPP	First Given Name William	Second Given Name D.
City Pittsburgh	State / Country Pennsylvania, U.S.A.	Citizenship U.S.A.
Post Office Address 2151 Cayuga Drive	City Pittsburgh	State Pennsylvania 15239
Date	Signature	

INVENTOR 11		
Family Name STEVENS	First Given Name Robert	Second Given Name G.
City Pittsburgh	State / Country Pennsylvania, U.S.A.	Citizenship U.S.A.
Post Office Address 5518 Ellsworth Avenue, Apt. 1	City Pittsburgh	State Pennsylvania 15232
Date	Signature	

CERTIFICATE UNDER 37 C.F.R. § 3.73(b)

FreeMarkets OnLine, Inc., a United States corporation, certifies that it is:

1. ☒ an assignee of the entire right, title, and interest; or
2. ☐ an assignee of an undivided part interest

in the application identified above by virtue of:

- A. An assignment from the inventor(s) of the application identified above. The assignment was recorded as follows:

FROM	TO	REEL/FRAME NO.
		Reel: Frame:

OR

- B. A chain of title from the inventors, of the application identified above, to the current assignee as shown below:

1. From: Marc Alaia
To: FreeMarkets OnLine Inc.
The document was recorded in the Patent and Trademark Office at Reel _____,
Frame _____, or for which a copy thereof is attached.
2. From: Jason Reneau
To: FreeMarkets OnLine, Inc.
The document was recorded in the Patent and Trademark Office at Reel _____,
Frame _____, or for which a copy thereof is attached.

3. From: David J. Becker, Anthony F. Bernard, Daniel C. Heckmann, Sam E. Kinney, Jr., Glen T. Meakem, Vincent F. Rago, Frederick W. Roberts, William D. Rupp, and Robert G. Stevens

To: FreeMarkets OnLine, Inc.

The document was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

- ☒ Copies of assignments or other documents in the chain of title are attached.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the Assignee.

FreeMarkets OnLine, Inc.
One Oliver Plaza
210 Sixth Avenue
Pittsburgh, Pennsylvania 15222

By: _____

Sam E. Kinney, Jr.
Executive Vice President

Dated: _____

3/26/99

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)	
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Marc ALAIA <i>et al.</i>)	
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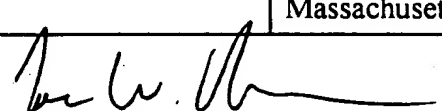
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Date 4/19/99	Signature 	

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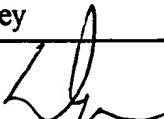
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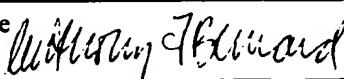
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Date 3-30-99	Signature 	

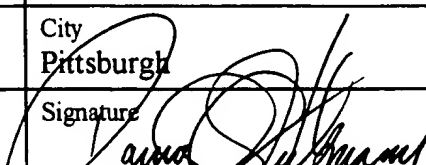
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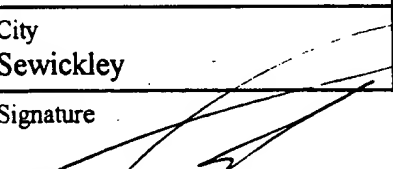
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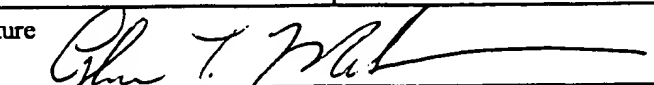
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Date 3/26/99	Signature 	


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PATENT

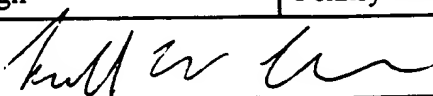
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Post Office Address 5 Grandview Avenue, Apt. 803	City Pittsburgh	State Pennsylvania 15221
Date 3/30/99	Signature 	


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Family Name STEVENS	First Given Name Robert	Second Given Name G.
City Pittsburgh	State / Country Pennsylvania, U.S.A.	Citizenship U.S.A.
Post Office Address 5518 Ellsworth Avenue, Apt. 1	City Pittsburgh	State Pennsylvania 15232
Date 4/1/99	Signature 	

ASSIGNMENT

WHEREAS I/We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled:

METHOD AND SYSTEM FOR CONDUCTING ELECTRONIC AUCTIONS

for which I/WE executed an application for United States Letters Patent concurrently herewith; or filed an application for United States Letters Patent on February 19, 1999, (Serial No. 09/252,790); and

WHEREAS, FreeMarkets OnLine, Inc., a corporation of Delaware, whose post office address is One Oliver Plaza, 210 Sixth Avenue, Pittsburgh, Pennsylvania 15222 (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for and in consideration of the sum of One Dollar (\$1.00) in hand paid and other good and valuable consideration the receipt of which from assignee is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of such application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY covenant that I/WE have the full right to convey the interest assigned by this Assignment, and I/WE have not executed and will not execute any agreement in conflict with this Assignment;

AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with assignee, its successors and assigns, any facts known to ME/US respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

IN TESTIMONY WHEREOF, I/WE have hereunto set our hand(s).

County of _____	_____ Marc Alaia Full Name of Sole or First Assignor
State of _____	SS. <u>113 Grandview Avenue, Glenshaw, PA 15116</u> Address
Subscribed and sworn to before me this __ day of _____, 19__.	_____ First Assignor's Signature
_____ Notary Public	_____ Date
Names of additional inventors attached <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

County of Allegheny
State of Pennsylvania

David J. Becker
Full Name of Second Assignor

SS. 22 Sewickley Hills Drive, Sewickley, Pennsylvania 15143
Address

Subscribed and sworn to before me
this 30 day of March, 1999

Tina J. Fallert Notary Public

Notarial Seal
Tina L. Fallert, Notary Public
Pittsburgh, Allegheny County
My Commission Expires June 14, 1999
Member, Pennsylvania Association of Notaries

[Signature]
Second Assignor's Signature
3.30.99
Date

County of Allegheny
State of Pennsylvania

Anthony F. Bernard
Full Name of Third Assignor

SS. 2518 Lindenwood Drive, Wexford, Pennsylvania 15090
Address

Subscribed and sworn to before me
this 1 day of April, 1999

Tina J. Fallert Notary Public

Notarial Seal
Tina L. Fallert, Notary Public
Pittsburgh, Allegheny County
My Commission Expires June 14, 1999
Member, Pennsylvania Association of Notaries

[Signature]
Third Assignor's Signature
4/1/99
Date

County of Allegheny
State of Pennsylvania

Daniel C. Heckmann
Full Name of Fourth Assignor

SS. 4889 East Willock Road, Pittsburgh, Pennsylvania 15227
Address

Subscribed and sworn to before me
this 30 day of March, 1999

Tina J. Fallert Notary Public

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Member, Pennsylvania Association of Notaries

[Signature]
Fourth Assignor's Signature
3/30/1999
Date

County of Allegheny
State of Pennsylvania

Sam E. Kinney, Jr.
Full Name of Fifth Assignor

SS. 314 Maple Lane, Sewickley, Pennsylvania 15143
Address

Subscribed and sworn to before me
this 26 day of March, 1999

Tina J. Fallert Notary Public

Notarial Seal
Tina L. Fallert, Notary Public
Pittsburgh, Allegheny County
My Commission Expires June 14, 1999
Member, Pennsylvania Association of Notaries

[Signature]
Fifth Assignor's Signature
3/26/99
Date

Names of additional inventors attached [X] Yes [] No

County of Allegheny
State of Pennsylvania

Glen T. Meakem
Full Name of Sixth Assignor

SS. 703 Cochran Street, Sewickley, Pennsylvania 15143
Address

Subscribed and sworn to before me
this 30 day of March, 1999

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Tina L. Fallert, Notary Public
Pittsburgh, Allegheny County
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Glen T. Meakem
Sixth Assignor's Signature

3/30/99

Date

County of Allegheny
State of Pennsylvania

Vincent F. Rago
Full Name of Seventh Assignor

SS. 15 Roxbury Road, Pittsburgh, Pennsylvania 15221
Address

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this 30 day of March, 1999

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Pittsburgh, Allegheny County
My Commission Expires June 14, 1999
Member, Pennsylvania Association of Notaries

Vincent F. Rago
Seventh Assignor's Signature

3/30/99

Date

County of _____
State of _____

Jason Reneau
Full Name of Eighth Assignor

SS. 403 Marlborough Street, Boston, Massachusetts 02115
Address

Subscribed and sworn to before me
this ____ day of _____, 19__.

Notary Public

Eighth Assignor's Signature

Date

County of Allegheny
State of Pennsylvania

Frederick W. Roberts
Full Name of Ninth Assignor

SS. 5 Grandview Avenue, Apt. 803, Pittsburgh, PA 15221
Address

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My Commission Expires June 14, 1999
Member, Pennsylvania Association of Notaries

Frederick W. Roberts
Ninth Assignor's Signature

3/30/99

Date

Names of additional inventors attached [X] Yes [] No

County of Allegheny
State of Pennsylvania

William D. Rupp
Full Name of Tenth Assignor

SS. 2151 Cayuga Drive, Pittsburgh, Pennsylvania 15239
Address

Subscribed and sworn to before me
this 1 day of April, 1999

Notarial Seal
Tina L. Fallert, Notary Public
Pittsburgh, Allegheny County
My Commission Expires June 14, 1999
Member, Pennsylvania Association of Notaries

William D. Rupp
Tenth Assignor's Signature

4/1/99
Date

County of Allegheny
State of Pennsylvania

Robert G. Stevens
Full Name of Eleventh Assignor

SS. 5518 Ellsworth Avenue, Apt. 1, Pittsburgh, PA 15232
Address

Subscribed and sworn to before me
this 1 day of April, 1999

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Pittsburgh, Allegheny County
My Commission Expires June 14, 1999
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Robert G. Stevens
Eleventh Assignor's Signature

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Names of additional inventors attached [] Yes [X] No

RECORDED - 46700-5004

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NOW THEREFORE, be it known that, for and in consideration of the sum of One Dollar (\$1.00) in hand paid and other good and valuable consideration the receipt of which from assignee is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of such application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY covenant that I/WE have the full right to convey the interest assigned by this Assignment, and I/WE have not executed and will not execute any agreement in conflict with this Assignment;

AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with assignee, its successors and assigns, any facts known to ME/US respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

IN TESTIMONY WHEREOF, I/WE have hereunto set our hand(s).

County of <u>Allegheny</u>	<u>Marc Alaia</u> Full Name of Sole or First Assignor
State of <u>Pennsylvania</u>	SS. <u>113 Grandview Avenue, Glenshaw, PA 15116</u> Address
Subscribed and sworn to before me this <u>12</u> day of <u>April</u> , 1999	<u>[Signature]</u> First Assignor's Signature
<u>[Signature]</u> Notary Public Tina L. Fallert, Notary Public Pittsburgh, Allegheny County My Commission Expires June 14, 1999 Member, Pennsylvania Association of Notaries	<u>April 6, 1999</u> Date
Names of additional inventors attached <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

County of _____
State of _____
Subscribed and sworn to before me
this ____ day of _____, 19____.

Notary Public

Full Name of Second Assignor

SS. 22 Sewickley Hills Drive, Sewickley, Pennsylvania 15143
Address

Second Assignor's Signature

Date

County of _____
State of _____
Subscribed and sworn to before me
this ____ day of _____, 19____.

Notary Public

Full Name of Third Assignor

SS. 2518 Lindenwood Drive, Wexford, Pennsylvania 15090
Address

Third Assignor's Signature

Date

County of _____
State of _____
Subscribed and sworn to before me
this ____ day of _____, 19____.

Notary Public

Full Name of Fourth Assignor

SS. 4889 East Willock Road, Pittsburgh, Pennsylvania 15227
Address

Fourth Assignor's Signature

Date

County of _____
State of _____
Subscribed and sworn to before me
this ____ day of _____, 19____.

Notary Public

Full Name of Fifth Assignor

SS. 314 Maple Lane, Sewickley, Pennsylvania 15143
Address

Fifth Assignor's Signature

Date

Names of additional inventors attached ☒ Yes ☐ No

County of _____

State of _____

Glen T. Meakem
Full Name of Sixth Assignor

SS. 703 Cochran Street, Sewickley, Pennsylvania 15143
Address

Subscribed and sworn to before me
this ____ day of _____, 19__.

Sixth Assignor's Signature

Date

Notary Public

County of _____

State of _____

Vincent F. Rago
Full Name of Seventh Assignor

SS. 15 Roxbury Road, Pittsburgh, Pennsylvania 15221
Address

Subscribed and sworn to before me
this ____ day of _____, 19__.

Seventh Assignor's Signature

Date

Notary Public

County of _____

State of _____

Jason Reneau
Full Name of Eighth Assignor

SS. 403 Marlborough Street, Boston, Massachusetts 02115
Address

Subscribed and sworn to before me
this ____ day of _____, 19__.

Eighth Assignor's Signature

Date

Notary Public

County of _____

State of _____

Frederick W. Roberts
Full Name of Ninth Assignor

SS. 5 Grandview Avenue, Apt. 803, Pittsburgh, PA 15221
Address

Subscribed and sworn to before me
this ____ day of _____, 19__.

Ninth Assignor's Signature

Date

Notary Public

Names of additional inventors attached ☒ Yes ☐ No

County of _____
State of _____
Subscribed and sworn to before me
this ____ day of _____, 19__.

Notary Public

Full Name of Tenth Assignor

SS. 2151 Cayuga Drive, Pittsburgh, Pennsylvania 15239
Address

Tenth Assignor's Signature

Date

County of _____
State of _____
Subscribed and sworn to before me
this ____ day of _____, 19__.

Notary Public

Full Name of Eleventh Assignor

SS. 5518 Ellsworth Avenue, Apt. 1, Pittsburgh, PA 15232
Address

Eleventh Assignor's Signature

Date

Names of additional inventors attached ☐ Yes ☒ No

ASSIGNMENT

WHEREAS I/We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled:

METHOD AND SYSTEM FOR CONDUCTING ELECTRONIC AUCTIONS

for which I/WE executed an application for United States Letters Patent concurrently herewith; or filed an application for United States Letters Patent on February 19, 1999, (Serial No. 09/252,790); and

WHEREAS, FreeMarkets OnLine, Inc., a corporation of Delaware, whose post office address is One Oliver Plaza, 210 Sixth Avenue, Pittsburgh, Pennsylvania 15222 (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for and in consideration of the sum of One Dollar (\$1.00) in hand paid and other good and valuable consideration the receipt of which from assignee is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of such application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY covenant that I/WE have the full right to convey the interest assigned by this Assignment, and I/WE have not executed and will not execute any agreement in conflict with this Assignment;

AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with assignee, its successors and assigns, any facts known to ME/US respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

IN TESTIMONY WHEREOF, I/WE have hereunto set our hand(s).

County of _____	_____ Marc Alaia Full Name of Sole or First Assignor
State of _____	SS. <u>113 Grandview Avenue, Glenshaw, PA 15116</u> Address
Subscribed and sworn to before me this ____ day of _____, 19____.	_____ First Assignor's Signature
_____ Notary Public	_____ Date
Names of additional inventors attached <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

County of _____

State of _____

Subscribed and sworn to before me
this ____ day of _____, 19__.

____ Notary Public

David J. Becker
Full Name of Second Assignor

SS. 22 Sewickley Hills Drive, Sewickley, Pennsylvania 15143
Address

Second Assignor's Signature

Date

County of _____

State of _____

Subscribed and sworn to before me
this ____ day of _____, 19__.

____ Notary Public

Anthony F. Bernard
Full Name of Third Assignor

SS. 2518 Lindenwood Drive, Wexford, Pennsylvania 15090
Address

Third Assignor's Signature

Date

County of _____

State of _____

Subscribed and sworn to before me
this ____ day of _____, 19__.

____ Notary Public

Daniel C. Heckmann
Full Name of Fourth Assignor

SS. 4889 East Willock Road, Pittsburgh, Pennsylvania 15227
Address

Fourth Assignor's Signature

Date

County of _____

State of _____

Subscribed and sworn to before me
this ____ day of _____, 19__.

____ Notary Public

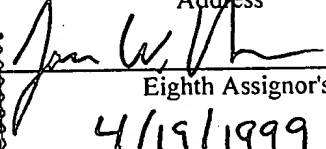
Sam E. Kinney, Jr.
Full Name of Fifth Assignor

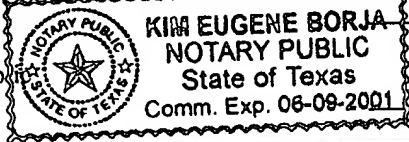
SS. 314 Maple Lane, Sewickley, Pennsylvania 15143
Address

Fifth Assignor's Signature

Date

Names of additional inventors attached ☒ Yes ☐ No

<p>County of _____</p> <p>State of _____</p> <p>Subscribed and sworn to before me this ____ day of _____, 19__.</p> <p>_____ Notary Public</p>	<p style="text-align: center;">Glen T. Meakem Full Name of Sixth Assignor</p> <p>SS. <u>703 Cochran Street, Sewickley, Pennsylvania 15143</u> Address</p> <p>_____ Sixth Assignor's Signature</p> <p>_____ Date</p>
<p>County of _____</p> <p>State of _____</p> <p>Subscribed and sworn to before me this ____ day of _____, 19__.</p> <p>_____ Notary Public</p>	<p style="text-align: center;">Vincent F. Rago Full Name of Seventh Assignor</p> <p>SS. <u>15 Roxbury Road, Pittsburgh, Pennsylvania 15221</u> Address</p> <p>_____ Seventh Assignor's Signature</p> <p>_____ Date</p>
<p>County of <u>HARRIS</u></p> <p>State of <u>TEXAS</u></p> <p>Subscribed and sworn to before me this <u>19</u> day of <u>APRIL</u>, 19<u>99</u>.</p> <p><u>Kim Eugene Borja</u> Notary Public</p>	<p style="text-align: center;">Jason Reneau Full Name of Eighth Assignor</p> <p>SS. <u>403 Marlborough Street, Boston, Massachusetts 02115</u> Address</p> <p style="text-align: center;"> Eighth Assignor's Signature</p> <p style="text-align: center;"><u>4/19/1999</u> Date</p>
<p>County of _____</p> <p>State of _____</p> <p>Subscribed and sworn to before me this ____ day of _____, 19__.</p> <p>_____ Notary Public</p>	<p style="text-align: center;">Frederick W. Roberts Full Name of Ninth Assignor</p> <p>SS. <u>5 Grandview Avenue, Apt. 803, Pittsburgh, PA 15221</u> Address</p> <p>_____ Ninth Assignor's Signature</p> <p>_____ Date</p>
<p>Names of additional inventors attached <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	



County of _____

William D. Rupp
Full Name of Tenth Assignor

State of _____

SS. 2151 Cayuga Drive, Pittsburgh, Pennsylvania 15239
Address

Subscribed and sworn to before me
this ____ day of _____, 19__.

Tenth Assignor's Signature

Notary Public

Date

County of _____

Robert G. Stevens
Full Name of Eleventh Assignor

State of _____

SS. 5518 Ellsworth Avenue, Apt. 1, Pittsburgh, PA 15232
Address

Subscribed and sworn to before me
this ____ day of _____, 19__.

Eleventh Assignor's Signature

Notary Public

Date

Names of additional inventors attached ☐ Yes ☒ No